

APPENDIX B  
Staffing Levels in U.S. Nursing Homes: 1996-1999

APPENDIX B1: Staffing Levels in U.S. Nursing Homes: 1996-1999

<b>Table B.1a: Staffing levels in U.S. Nursing Homes: All Facilities, 1996-1999</b>				
	<b>Mean hours per resident day (standard deviation)</b>			
	<b>1996</b>	<b>1997</b>	<b>1998</b>	<b>1999<sup>^</sup></b>
<b>All facilities</b>	(n=14,335)	(n=13,598)	(n=13,005)	(n=7,019)
Total hours per resident day, including Directors of Nursing	3.28 (1.49)	3.36 (1.54)	3.37 (1.51)	3.34 (1.47)
Total hours per resident day, excluding Directors of Nursing	3.18 (1.41)	3.26 (1.47)	3.26 (1.43)	3.24 (1.40)
RN Director of Nursing Hours	0.11 (0.17)	0.11 (0.13)	0.11 (0.15)	0.11 (0.13)
RN hours per resident day	0.48 (0.67)	0.53 (0.73)	0.53 (0.73)	0.53 (0.74)
LPN hours per resident day	0.71 (0.54)	0.72 (0.54)	0.72 (0.54)	0.72 (0.51)
Nurses aide hours per resident day	1.99 (0.76)	2.01 (0.75)	2.01 (0.75)	2.01 (0.74)
<sup>^</sup> : 1999 data were available only for assessments completed before July 1, 1999 Source: OSCAR				

<b>Table B.1b: Staffing levels in U.S. Nursing Homes: Freestanding and Hospital-Based Facilities, 1996-1999</b>				
	<b>Mean hours per resident day(standard deviation)</b>			
	<b>1996</b>	<b>1997</b>	<b>1998</b>	<b>1999<sup>^</sup></b>
<b>Freestanding facilities</b>	(n=12,536)	(n=11,935)	(n=11,295)	(n=6,133)
Total hours per resident day, including Directors of Nursing	2.98 (1.05)	3.00 (1.02)	3.03 (1.00)	3.02 (0.98)
Total hours per resident day, excluding Directors of Nursing	2.89 (1.02)	2.92 (0.99)	2.95 (0.97)	2.93 (0.95)
RN Director of nursing hours per resident day	0.09 (0.16)	0.08 (0.09)	0.08 (0.11)	0.08 (0.08)
RN hours per resident day	0.34 (0.35)	0.35 (0.37)	0.36 (0.36)	0.35 (0.33)
LPN hours per resident day	0.63 (0.39)	0.63 (0.35)	0.64 (0.35)	0.65 (0.37)
Nurses aide hours per resident day	1.93 (0.70)	1.94 (0.66)	1.95 (0.66)	1.93 (0.66)
<b>Hospital-based facilities</b>	(n=1,799)	(n=1,807)	(n=1,710)	(n=886)
Total hours per resident day, including Directors of Nursing	5.38 (2.20)	5.65 (2.25)	5.61 (2.22)	5.59 (2.18)
Total hours per resident day, excluding Directors of Nursing	5.13 (2.06)	5.39 (2.11)	5.36 (2.07)	5.33 (2.05)
RN Director of nursing hours per resident day	0.25 (0.25)	0.26 (0.24)	0.26 (0.24)	0.26 (0.24)
RN hours per resident day	1.48 (1.25)	1.63 (1.30)	1.68 (1.34)	1.68 (1.35)
LPN hours per resident day	1.26 (0.96)	1.30 (1.00)	1.22 (0.93)	1.25 (0.98)
Nurses aide hours per resident day	2.39 (1.01)	2.46 (1.04)	2.45 (0.99)	2.39 (0.96)
<sup>^</sup> : 1999 data were available only for assessments completed before July 1, 1999 Source: OSCAR				

<b>Table B.1c: Staffing levels in U.S. Nursing Homes: For-Profit, Non-Profit and Government Facilities, 1996-1999</b>				
	<b>Mean hours per resident day (standard deviation)</b>			
	<b>1996</b>	<b>1997</b>	<b>1998</b>	<b>1999<sup>^</sup></b>
<b>For-profit facilities</b>	(n=9,411)	(n=8,847)	(n=8,413)	(n=4,572)
Total hours per resident day, including Directors of Nursing	2.98 (1.23)	3.03 (1.24)	3.03 (1.17)	3.00 (1.13)
Total hours per resident day, excluding Directors of Nursing	2.89 (1.17)	2.93 (1.18)	2.93 (1.11)	2.91 (1.08)
RN Director of Nursing hours per resident day	0.10 (0.18)	0.09 (0.12)	0.09 (0.15)	0.09 (0.10)
RN hours per resident day	0.37 (0.50)	0.39 (0.52)	0.39 (0.50)	0.37 (0.47)
LPN hours per resident day	0.66 (0.46)	0.66 (0.45)	0.67 (0.43)	0.67 (0.43)
Nurses aide hours per resident day	1.86 (0.68)	1.88 (0.66)	1.88 (0.65)	1.87 (0.64)
<b>Non-profit facilities</b>	(n=3,956)	(n=3,844)	(n=3,720)	(n=1,975)
Total hours per resident day, including Directors of Nursing	3.84 (1.77)	3.98 (1.85)	4.01 (1.86)	3.98 (1.78)
Total hours per resident day, excluding Directors of Nursing	3.72 (1.67)	3.84 (1.75)	3.88 (1.75)	3.84 (1.68)
RN Director of Nursing hours per resident day	0.13 (0.17)	0.13 (0.16)	0.12 (0.16)	0.13 (0.16)
RN hours per resident day	0.73 (0.89)	0.80 (0.97)	0.84 (1.03)	0.83 (1.00)
LPN hours per resident day	0.78 (0.63)	0.80 (0.66)	0.81 (0.63)	0.81 (0.64)
Nurses aide hours per resident day	2.21 (0.85)	2.23 (0.82)	2.23 (0.82)	2.20 (0.78)
<b>Government facilities</b>	(n=968)	(n=919)	(n=883)	(n=472)
Total hours per resident day, including Directors of Nursing	3.82 (1.69)	3.95 (1.81)	3.90 (1.71)	3.97 (1.81)
Total hours per resident day, excluding Directors of Nursing	3.70 (1.61)	3.83 (1.72)	3.78 (1.61)	3.85 (1.71)

**Table B.1c: Staffing levels in U.S. Nursing Homes:  
For-Profit, Non-Profit and Government Facilities, 1996-1999**

	Mean hours per resident day (standard deviation)			
	1996	1997	1998	1999 <sup>^</sup>
RN Director of Nursing hours per resident day	0.11 (0.14)	0.12 (0.15)	0.12 (0.16)	0.12 (0.15)
RN hours per resident day	0.58 (0.77)	0.65 (0.88)	0.63 (0.81)	0.66 (0.87)
LPN hours per resident day	0.84 (0.74)	0.87 (0.73)	0.80 (0.61)	0.87 (0.78)
Nurses aide hours per resident day	2.28 (0.82)	2.31 (0.90)	2.35 (0.82)	2.31 (0.89)

<sup>^</sup>: 1999 data were available only for assessments completed before July 1, 1999

Source: OSCAR

<b>Table B.1d: Staffing levels in U.S. Nursing Homes: By Proportion of Medicare residents at facility, 1996-1999</b>				
	<b>Mean hours per resident day (standard deviation)</b>			
	<b>1996</b>	<b>1997</b>	<b>1998</b>	<b>1999<sup>^</sup></b>
<b>Less than 5 percent Medicare residents</b>	(n=6,262)	(n=5,446)	(n=5,151)	(n=2,922)
Total hours per resident day, including Directors of Nursing	2.91 (1.07)	2.93 (1.02)	2.95 (1.04)	2.96 (1.05)
Total hours per resident day, excluding Directors of Nursing	2.81 (1.03)	2.83 (0.99)	2.85 (1.00)	2.86 (1.01)
RN Director of Nursing hours per resident day	0.10 (0.11)	0.10 (0.11)	0.10 (0.11)	0.10 (0.10)
RN hours per resident day	0.30 (0.34)	0.31 (0.34)	0.32 (0.36)	0.31 (0.33)
LPN hours per resident day	0.61 (0.41)	0.60 (0.37)	0.61 (0.37)	0.64 (0.40)
Nurses aide hours per resident day	1.90 (0.71)	1.91 (0.69)	1.92 (0.69)	1.91 (0.70)
<b>6-10 percent Medicare residents</b>	(n=3,545)	(n=3,516)	(n=3,540)	(n=1,901)
Total hours per resident day, including Directors of Nursing	2.95 (0.77)	2.97 (0.75)	3.00 (0.78)	3.01 (0.74)
Total hours per resident day, excluding Directors of Nursing	2.88 (0.77)	2.91 (0.74)	2.93 (0.76)	2.94 (0.73)
RN Director of Nursing hours per resident day	0.07 (0.05)	0.07 (0.04)	0.07 (0.14)	0.07 (0.05)
RN hours per resident day	0.34 (0.25)	0.34 (0.25)	0.34 (0.25)	0.34 (0.25)
LPN hours per resident day	0.62 (0.33)	0.63 (0.29)	0.64 (0.32)	0.65 (0.31)
Nurses aide hours per resident day	1.93 (0.57)	1.94 (0.55)	1.95 (0.57)	1.94 (0.55)
<b>11-15 percent Medicare residents</b>	(n=2,013)	(n=2,011)	(n=1,871)	(n=984)
Total hours per resident day, including Directors of Nursing	3.05 (0.89)	3.06 (0.84)	3.07 (0.80)	3.10 (0.85)
Total hours per resident day, excluding Directors of Nursing	2.97 (0.85)	2.99 (0.83)	3.00 (0.78)	3.03 (0.84)

<b>Table B.1d: Staffing levels in U.S. Nursing Homes: By Proportion of Medicare residents at facility, 1996-1999</b>				
	<b>Mean hours per resident day (standard deviation)</b>			
	<b>1996</b>	<b>1997</b>	<b>1998</b>	<b>1999<sup>^</sup></b>
RN Director of Nursing hours per resident day	0.07 (0.26)	0.07 (0.06)	0.07 (0.11)	0.07 (0.05)
RN hours per resident day	0.37 (0.29)	0.37 (0.31)	0.37 (0.28)	0.38 (0.26)
LPN hours per resident day	0.66 (0.35)	0.66 (0.33)	0.66 (0.32)	0.67 (0.32)
Nurses aide hours per resident day	1.95 (0.61)	1.96 (0.56)	1.97 (0.57)	1.98 (0.59)
<b>More than 15 percent Medicare residents</b>	(n=2,515)	(n=2,625)	(n=2,443)	(n=1,212)
Total hours per resident day, including Directors of Nursing	4.87 (2.28)	5.01 (2.34)	5.01 (2.28)	4.98 (2.28)
Total hours per resident day, excluding Directors of Nursing	4.67 (2.14)	4.81 (2.20)	4.81 (2.13)	4.78 (2.14)
RN Director of Nursing hours per resident day	0.20 (0.26)	0.20 (0.23)	0.20 (0.23)	0.20 (0.22)
RN hours per resident day	1.24 (1.18)	1.34 (1.24)	1.37 (1.28)	1.40 (1.29)
LPN hours per resident day	1.11 (0.88)	1.12 (0.92)	1.09 (0.85)	1.10 (0.92)
Nurses aide hours per resident day	2.31 (1.06)	2.35 (1.06)	2.35 (1.00)	2.28 (0.97)
<sup>^</sup> : 1999 data were available only for assessments completed before July 1, 1999 Source: OSCAR				

## APPENDIX B2: Distribution of Staffing by State, 1996-1999

**Table B2.a: Staffing levels in U.S. Nursing Homes: By State, 1996-1999**

State	Mean hours per resident day											
	1996			1997			1998			1999 <sup>^</sup>		
	RN	LPN	Nurse aide	RN	LPN	Nurse aide	RN	LPN	Nurse aide	RN	LPN	Nurse aide
AK	1.11	0.66	3.19	1.45	0.62	3.42	1.15	0.54	3.23	0.98	0.67	3.09
AL	0.26	0.93	2.36	0.26	0.93	2.37	0.26	0.99	2.47	0.25	0.97	2.37
AR	0.25	0.80	1.72	0.33	0.83	1.86	0.31	0.83	1.97	0.35	0.89	1.94
AZ	0.68	0.77	2.07	0.84	0.85	2.01	0.78	0.80	2.16	0.56	0.72	1.97
CA	0.58	0.74	2.20	0.62	0.73	2.22	0.58	0.73	2.21	0.55	0.72	2.14
CO	0.74	0.70	1.83	0.74	0.76	1.90	0.64	0.70	1.96	0.60	0.69	1.93
CT	0.53	0.47	2.00	0.53	0.48	2.10	0.57	0.50	2.09	0.52	0.52	2.11
DE	0.71	0.67	2.35	0.77	0.68	2.37	1.03	0.65	2.73	0.75	0.66	2.47
FL	0.58	0.88	2.14	0.65	0.87	2.12	0.64	0.88	2.06	0.59	0.84	2.06
GA	0.21	0.82	2.00	0.21	0.82	2.06	0.24	0.84	2.01	0.24	0.85	1.97
HI	0.83	0.67	2.43	0.90	0.63	2.61	0.88	0.55	2.68	0.78	0.82	2.24
IA	0.49	0.48	1.70	0.47	0.49	1.69	0.52	0.51	1.66	0.53	0.55	1.66
ID	0.62	0.81	2.54	0.72	0.96	2.59	0.65	0.75	2.65	0.57	0.86	2.84
IL	0.57	0.53	1.76	0.62	0.53	1.78	0.65	0.54	1.83	0.67	0.54	1.88
IN	0.41	0.84	1.55	0.45	0.85	1.53	0.46	0.87	1.54	0.49	0.87	1.58
KS	0.40	0.54	1.62	0.44	0.57	1.61	0.48	0.57	1.59	0.50	0.53	1.66
KY	0.49	0.96	2.05	0.58	0.98	2.16	0.56	0.92	2.11	0.58	0.96	2.06
LA	0.34	0.87	1.87	0.39	0.91	1.91	0.34	0.85	1.96	0.37	0.94	1.83
MA	0.62	0.59	2.24	0.69	0.56	2.21	0.74	0.58	2.24	0.70	0.58	2.18
MD	0.51	0.60	1.96	0.57	0.64	1.99	0.62	0.63	2.08	0.73	0.60	2.10
ME	0.53	0.47	2.62	0.65	0.47	2.60	0.71	0.49	2.68	0.57	0.48	2.65
MI	0.35	0.60	2.25	0.43	0.61	2.29	0.42	0.61	2.29	0.43	0.67	2.22
MN	0.35	0.67	1.83	0.36	0.66	1.84	0.37	0.66	1.80	0.33	0.68	1.81
MO	0.46	0.80	1.81	0.50	0.77	1.78	0.49	0.76	1.76	0.49	0.76	1.84
MS	0.42	0.88	2.00	0.55	0.95	2.02	0.51	0.91	2.03	0.45	0.84	1.99
MT	0.60	0.56	2.35	0.61	0.60	2.26	0.63	0.59	2.35	0.66	0.53	2.21
NC	0.48	0.74	2.24	0.53	0.76	2.35	0.55	0.83	2.32	0.52	0.81	2.25

**Table B2.a: Staffing levels in U.S. Nursing Homes: By State, 1996-1999**

State	Mean hours per resident day											
	1996			1997			1998			1999 <sup>^</sup>		
	RN	LPN	Nurse aide	RN	LPN	Nurse aide	RN	LPN	Nurse aide	RN	LPN	Nurse aide
ND	0.43	0.63	2.18	0.43	0.64	2.21	0.38	0.58	2.25	0.54	0.70	2.28
NE	0.42	0.67	1.74	0.47	0.68	1.79	0.51	0.66	1.81	0.56	0.72	1.76
NH	0.60	0.50	2.39	0.62	0.56	2.43	0.65	0.55	2.53	0.70	0.57	2.56
NJ	0.55	0.56	2.05	0.56	0.55	2.08	0.62	0.57	2.08	0.66	0.66	2.05
NM	0.59	0.59	2.09	0.76	0.56	2.08	0.59	0.55	2.09	0.46	0.53	2.05
NV	1.01	0.91	1.98	1.04	0.75	1.91	1.14	0.74	1.94	1.67	0.55	2.52
NY	0.38	0.64	1.99	0.36	0.65	1.99	0.37	0.66	2.03	0.38	0.66	2.02
OH	0.52	0.81	2.10	0.57	0.82	2.09	0.55	0.80	2.05	0.58	0.85	2.09
OK	0.22	0.64	1.45	0.28	0.78	1.59	0.30	0.75	1.57	0.21	0.73	1.53
OR	0.55	0.40	2.24	0.55	0.42	2.18	0.57	0.42	2.11	0.54	0.42	2.11
PA	0.67	0.71	2.05	0.75	0.75	2.07	0.80	0.78	2.11	0.75	0.76	2.08
RI	0.51	0.35	2.01	0.60	0.31	2.09	0.65	0.32	2.06	0.73	0.31	2.07
SC	0.41	0.89	2.26	0.46	0.88	2.31	0.50	0.92	2.25	0.59	0.84	2.23
SD	0.48	0.31	1.86	0.49	0.34	1.89	0.53	0.34	1.90	0.49	0.32	1.85
TN	0.33	0.80	1.80	0.34	0.79	1.89	0.44	0.87	1.90	0.37	0.85	1.84
TX	0.43	0.87	1.83	0.45	0.90	1.86	0.40	0.88	1.83	0.34	0.89	1.78
UT	0.70	0.64	1.87	0.73	0.59	1.96	0.76	0.69	2.01	1.06	0.79	1.98
VA	0.40	0.81	1.99	0.41	0.84	2.06	0.41	0.91	2.07	0.43	0.94	2.04
VT	0.38	0.72	2.20	0.49	0.66	2.17	0.38	0.75	2.21	0.41	0.70	2.23
WA	0.66	0.60	2.30	0.77	0.59	2.44	0.72	0.58	2.45	0.73	0.62	2.38
WI	0.52	0.43	2.07	0.60	0.44	2.14	0.60	0.44	2.10	0.53	0.44	2.02
WV	0.34	0.91	2.12	0.51	1.01	2.17	0.43	0.72	2.20	0.43	0.86	2.12
WY	0.82	0.68	2.03	0.64	0.65	1.96	0.70	0.56	2.02	0.66	0.58	2.00

<sup>^</sup>: 1999 data were available only for assessments completed before July 1, 1999

Note: Sample sizes can be found in Table 3.7

Source: OSCAR

### APPENDIX B.3: Cumulative distribution of Staffing

<b>Appendix B.3a: Staffing levels in U.S. Nursing Homes: Distribution of Total hours per resident day: All Facilities, 1998</b>			
<b>Total hours per resident day</b>	<b>Number of facilities</b>	<b>Percentage of facilities</b>	<b>Cumulative percentage</b>
0.5	2	0	0
0.55	5	0	0.1
0.6	3	0	0.1
0.65	8	0.1	0.1
0.7	6	0	0.2
0.75	6	0	0.2
0.8	9	0.1	0.3
0.85	9	0.1	0.4
0.9	8	0.1	0.4
0.95	8	0.1	0.5
1	6	0	0.5
1.05	17	0.1	0.7
1.1	17	0.1	0.8
1.15	8	0.1	0.9
1.2	18	0.1	1
1.25	14	0.1	1.1
1.3	27	0.2	1.3
1.35	30	0.2	1.5
1.4	38	0.3	1.8
1.45	34	0.3	2.1
1.5	32	0.2	2.3
1.55	33	0.3	2.6
1.6	35	0.3	2.9
1.65	58	0.4	3.3
1.7	48	0.4	3.7
1.75	61	0.5	4.2
1.8	99	0.8	4.9
1.85	94	0.7	5.6
1.9	110	0.8	6.5
1.95	101	0.8	7.3
2	136	1	8.3
2.05	161	1.2	9.5
2.1	165	1.3	10.8
2.15	178	1.4	12.2

<b>Appendix B.3a: Staffing levels in U.S. Nursing Homes: Distribution of Total hours per resident day: All Facilities, 1998</b>			
<b>Total hours per resident day</b>	<b>Number of facilities</b>	<b>Percentage of facilities</b>	<b>Cumulative percentage</b>
2.2	192	1.5	13.7
2.25	217	1.7	15.3
2.3	232	1.8	17.1
2.35	272	2.1	19.2
2.4	272	2.1	21.3
2.45	328	2.5	23.8
2.5	309	2.4	26.2
2.55	356	2.7	28.9
2.6	339	2.6	31.5
2.65	368	2.8	34.4
2.7	386	3	37.3
2.75	397	3.1	40.4
2.8	448	3.4	43.8
2.85	408	3.1	47
2.9	409	3.1	50.1
2.95	368	2.8	52.9
3	373	2.9	55.8
3.05	341	2.6	58.4
3.1	341	2.6	61.1
3.15	326	2.5	63.6
3.2	278	2.1	65.7
3.25	261	2	67.7
3.3	248	1.9	69.6
3.35	240	1.8	71.5
3.4	221	1.7	73.2
3.45	188	1.4	74.6
3.5	196	1.5	76.1
3.55	184	1.4	77.5
3.6	152	1.2	78.7
3.65	125	1	79.7
3.7	112	0.9	80.5
3.75	123	0.9	81.5
3.8	113	0.9	82.3
3.85	94	0.7	83.1
3.9	82	0.6	83.7

<b>Appendix B.3a: Staffing levels in U.S. Nursing Homes: Distribution of Total hours per resident day: All Facilities, 1998</b>			
<b>Total hours per resident day</b>	<b>Number of facilities</b>	<b>Percentage of facilities</b>	<b>Cumulative percentage</b>
3.95	76	0.6	84.3
4	78	0.6	84.9
4.05	66	0.5	85.4
4.1	61	0.5	85.8
4.15	58	0.4	86.3
4.2	48	0.4	86.7
4.25	47	0.4	87
4.3	32	0.2	87.3
4.35	42	0.3	87.6
4.4	56	0.4	88
4.45	26	0.2	88.2
4.5	31	0.2	88.5
4.55	44	0.3	88.8
4.6	33	0.3	89.1
4.65	28	0.2	89.3
4.7	27	0.2	89.5
4.75	26	0.2	89.7
4.8	29	0.2	89.9
4.85	39	0.3	90.2
4.9	32	0.2	90.4
4.95	22	0.2	90.6
5	26	0.2	90.8
5.05	13	0.1	90.9
5.1	14	0.1	91
5.15	28	0.2	91.2
5.2	18	0.1	91.4
5.25	27	0.2	91.6
5.3	20	0.2	91.7
5.35	24	0.2	91.9
5.4	20	0.2	92.1
5.45	21	0.2	92.2
5.5	14	0.1	92.3
5.55	26	0.2	92.5
5.6	22	0.2	92.7
5.65	20	0.2	92.9

<b>Appendix B.3a: Staffing levels in U.S. Nursing Homes: Distribution of Total hours per resident day: All Facilities, 1998</b>			
<b>Total hours per resident day</b>	<b>Number of facilities</b>	<b>Percentage of facilities</b>	<b>Cumulative percentage</b>
5.7	28	0.2	93.1
5.75	18	0.1	93.2
5.8	15	0.1	93.3
5.85	28	0.2	93.5
5.9	20	0.2	93.7
5.95	17	0.1	93.8
6	19	0.1	94
6.05	20	0.2	94.1
6.1	19	0.1	94.3
6.15	16	0.1	94.4
6.2	16	0.1	94.5
6.25	14	0.1	94.6
6.3	20	0.2	94.8
6.35	18	0.1	94.9
6.4	16	0.1	95
6.45	15	0.1	95.2
6.5	20	0.2	95.3
6.55	13	0.1	95.4
6.6	12	0.1	95.5
6.65	18	0.1	95.6
6.7	16	0.1	95.8
6.75	15	0.1	95.9
6.8	11	0.1	96
6.85	7	0.1	96
6.9	13	0.1	96.1
6.95	13	0.1	96.2
7	14	0.1	96.3
7.05	15	0.1	96.4
7.1	10	0.1	96.5
7.15	17	0.1	96.7
7.2	9	0.1	96.7
7.25	13	0.1	96.8
7.3	14	0.1	96.9
7.35	8	0.1	97
7.4	10	0.1	97.1

<b>Appendix B.3a: Staffing levels in U.S. Nursing Homes: Distribution of Total hours per resident day: All Facilities, 1998</b>			
<b>Total hours per resident day</b>	<b>Number of facilities</b>	<b>Percentage of facilities</b>	<b>Cumulative percentage</b>
7.45	11	0.1	97.2
7.5	15	0.1	97.3
7.55	7	0.1	97.3
7.6	9	0.1	97.4
7.65	11	0.1	97.5
7.7	13	0.1	97.6
7.75	3	0	97.6
7.8	8	0.1	97.7
7.85	8	0.1	97.7
7.9	10	0.1	97.8
7.95	8	0.1	97.9
8	16	0.1	98
8.05	9	0.1	98.1
8.1	6	0	98.1
8.15	7	0.1	98.2
8.2	9	0.1	98.2
8.25	9	0.1	98.3
8.3	6	0	98.3
8.35	1	0	98.3
8.4	8	0.1	98.4
8.45	3	0	98.4
8.5	7	0.1	98.5
8.55	7	0.1	98.5
8.6	8	0.1	98.6
8.65	2	0	98.6
8.7	5	0	98.7
8.75	2	0	98.7
8.8	8	0.1	98.7
8.85	7	0.1	98.8
8.9	5	0	98.8
8.95	9	0.1	98.9
9	7	0.1	98.9
9.05	6	0	99
9.1	1	0	99
9.15	3	0	99

<b>Appendix B.3a: Staffing levels in U.S. Nursing Homes: Distribution of Total hours per resident day: All Facilities, 1998</b>			
<b>Total hours per resident day</b>	<b>Number of facilities</b>	<b>Percentage of facilities</b>	<b>Cumulative percentage</b>
9.2	3	0	99
9.25	8	0.1	99.1
9.3	4	0	99.1
9.35	5	0	99.2
9.4	4	0	99.2
9.45	1	0	99.2
9.5	5	0	99.3
9.55	2	0	99.3
9.6	6	0	99.3
9.7	6	0	99.4
9.75	1	0	99.4
9.8	2	0	99.4
9.85	2	0	99.4
9.9	3	0	99.4
9.95	6	0	99.5
10	4	0	99.5
10.05	2	0	99.5
10.1	5	0	99.6
10.15	2	0	99.6
10.2	1	0	99.6
10.25	2	0	99.6
10.35	1	0	99.6
10.45	1	0	99.6
10.5	4	0	99.6
10.55	1	0	99.6
10.6	1	0	99.7
10.65	8	0.1	99.7
10.7	6	0	99.8
10.75	4	0	99.8
10.8	5	0	99.8
10.9	1	0	99.8
10.95	2	0	99.9
11	3	0	99.9
11.05	1	0	99.9
11.1	4	0	99.9

<b>Appendix B.3a: Staffing levels in U.S. Nursing Homes: Distribution of Total hours per resident day: All Facilities, 1998</b>			
<b>Total hours per resident day</b>	<b>Number of facilities</b>	<b>Percentage of facilities</b>	<b>Cumulative percentage</b>
11.15	1	0	99.9
11.2	2	0	99.9
11.25	4	0	100
11.3	1	0	100
11.35	1	0	100
11.45	1	0	100
11.55	1	0	100
Source: OSCAR			

<b>Appendix B.3b: Staffing levels in U.S. Nursing Homes: Distribution of RN hours per resident day: All facilities, 1998</b>			
<b>RN hours per resident day</b>	<b>Number of facilities</b>	<b>Percentage of facilities</b>	<b>Cumulative percentage</b>
0	311	2.4	2.4
0.05	1007	7.7	10.1
0.1	956	7.4	17.5
0.15	1129	8.7	26.2
0.2	1108	8.5	34.7
0.25	1101	8.5	43.2
0.3	1001	7.7	50.8
0.35	911	7	57.9
0.4	807	6.2	64.1
0.45	656	5	69.1
0.5	580	4.5	73.6
0.55	502	3.9	77.4
0.6	368	2.8	80.3
0.65	327	2.5	82.8
0.7	242	1.9	84.6
0.75	191	1.5	86.1
0.8	124	1	87.1
0.85	116	0.9	87.9
0.9	92	0.7	88.7
0.95	74	0.6	89.2
1	63	0.5	89.7
1.05	47	0.4	90.1
1.1	48	0.4	90.4
1.15	48	0.4	90.8
1.2	39	0.3	91.1
1.25	34	0.3	91.4
1.3	29	0.2	91.6
1.35	34	0.3	91.8
1.4	26	0.2	92
1.45	21	0.2	92.2
1.5	30	0.2	92.4
1.55	21	0.2	92.6
1.6	31	0.2	92.8
1.65	27	0.2	93
1.7	32	0.2	93.3

**Appendix B.3b: Staffing levels in U.S. Nursing Homes:  
Distribution of RN hours per resident day: All facilities, 1998**

<b>RN hours per resident day</b>	<b>Number of facilities</b>	<b>Percentage of facilities</b>	<b>Cumulative percentage</b>
1.75	19	0.1	93.4
1.8	28	0.2	93.7
1.85	24	0.2	93.8
1.9	26	0.2	94
1.95	19	0.1	94.2
2	20	0.2	94.3
2.05	29	0.2	94.6
2.1	21	0.2	94.7
2.15	18	0.1	94.9
2.2	19	0.1	95
2.25	18	0.1	95.1
2.3	33	0.3	95.4
2.35	24	0.2	95.6
2.4	32	0.2	95.8
2.45	29	0.2	96.1
2.5	20	0.2	96.2
2.55	19	0.1	96.4
2.6	15	0.1	96.5
2.65	31	0.2	96.7
2.7	20	0.2	96.9
2.75	11	0.1	96.9
2.8	15	0.1	97.1
2.85	21	0.2	97.2
2.9	15	0.1	97.3
2.95	17	0.1	97.5
3	18	0.1	97.6
3.05	7	0.1	97.7
3.1	16	0.1	97.8
3.15	20	0.2	97.9
3.2	18	0.1	98.1
3.25	11	0.1	98.2
3.3	11	0.1	98.2
3.35	11	0.1	98.3
3.4	5	0	98.4
3.45	17	0.1	98.5

**Appendix B.3b: Staffing levels in U.S. Nursing Homes:  
Distribution of RN hours per resident day: All facilities, 1998**

<b>RN hours per resident day</b>	<b>Number of facilities</b>	<b>Percentage of facilities</b>	<b>Cumulative percentage</b>
3.5	9	0.1	98.6
3.55	10	0.1	98.6
3.6	9	0.1	98.7
3.65	6	0	98.8
3.7	10	0.1	98.8
3.75	10	0.1	98.9
3.8	5	0	99
3.85	7	0.1	99
3.9	7	0.1	99.1
3.95	10	0.1	99.1
4	11	0.1	99.2
4.05	6	0	99.3
4.1	4	0	99.3
4.15	4	0	99.3
4.2	4	0	99.4
4.25	7	0.1	99.4
4.3	8	0.1	99.5
4.4	5	0	99.5
4.45	1	0	99.5
4.5	4	0	99.6
4.55	1	0	99.6
4.65	4	0	99.6
4.7	4	0	99.6
4.75	3	0	99.6
4.8	9	0.1	99.7
4.9	3	0	99.7
5	2	0	99.8
5.05	3	0	99.8
5.1	2	0	99.8
5.2	1	0	99.8
5.3	2	0	99.8
5.35	4	0	99.8
5.4	2	0	99.9
5.45	1	0	99.9
5.5	1	0	99.9

<b>Appendix B.3b: Staffing levels in U.S. Nursing Homes: Distribution of RN hours per resident day: All facilities, 1998</b>			
<b>RN hours per resident day</b>	<b>Number of facilities</b>	<b>Percentage of facilities</b>	<b>Cumulative percentage</b>
5.55	1	0	99.9
5.6	1	0	99.9
5.65	1	0	99.9
5.7	1	0	99.9
5.75	1	0	99.9
5.85	1	0	99.9
5.95	2	0	99.9
6.05	1	0	99.9
6.35	1	0	100
6.45	1	0	100
6.8	1	0	100
7.85	1	0	100
8	1	0	100
8.4	1	0	100
9.05	1	0	100
Source: OSCAR			

<b>Appendix B.3c: Staffing levels in U.S. Nursing Homes: Distribution of RN+LPN hours per resident day: All Facilities, 1998</b>			
<b>RN+LPN hours per resident day</b>	<b>Number of facilities</b>	<b>Percentage of facilities</b>	<b>Cumulative percentage</b>
0	1	0	0
0.05	1	0	0
0.1	3	0	0
0.15	5	0	0.1
0.2	8	0.1	0.1
0.25	11	0.1	0.2
0.3	28	0.2	0.4
0.35	47	0.4	0.8
0.4	82	0.6	1.4
0.45	139	1.1	2.5
0.5	214	1.6	4.1
0.55	317	2.4	6.6
0.6	465	3.6	10.2
0.65	554	4.3	14.4
0.7	733	5.6	20.1
0.75	794	6.1	26.2
0.8	908	7	33.1
0.85	918	7.1	40.2
0.9	878	6.8	47
0.95	844	6.5	53.4
1	788	6.1	59.5
1.05	653	5	64.5
1.1	605	4.7	69.2
1.15	460	3.5	72.7
1.2	403	3.1	75.8
1.25	315	2.4	78.2
1.3	259	2	80.2
1.35	210	1.6	81.8
1.4	174	1.3	83.2
1.45	137	1.1	84.2
1.5	105	0.8	85
1.55	91	0.7	85.7
1.6	84	0.6	86.4
1.65	59	0.5	86.8
1.7	63	0.5	87.3

<b>Appendix B.3c: Staffing levels in U.S. Nursing Homes: Distribution of RN+LPN hours per resident day: All Facilities, 1998</b>			
<b>RN+LPN hours per resident day</b>	<b>Number of facilities</b>	<b>Percentage of facilities</b>	<b>Cumulative percentage</b>
1.75	58	0.4	87.8
1.8	50	0.4	88.2
1.85	38	0.3	88.4
1.9	39	0.3	88.7
1.95	39	0.3	89
2	33	0.3	89.3
2.05	28	0.2	89.5
2.1	18	0.1	89.7
2.15	26	0.2	89.9
2.2	32	0.2	90.1
2.25	24	0.2	90.3
2.3	23	0.2	90.5
2.35	18	0.1	90.6
2.4	27	0.2	90.8
2.45	18	0.1	90.9
2.5	28	0.2	91.2
2.55	20	0.2	91.3
2.6	16	0.1	91.4
2.65	27	0.2	91.6
2.7	17	0.1	91.8
2.75	26	0.2	92
2.8	27	0.2	92.2
2.85	29	0.2	92.4
2.9	19	0.1	92.5
2.95	16	0.1	92.7
3	34	0.3	92.9
3.05	24	0.2	93.1
3.1	16	0.1	93.2
3.15	22	0.2	93.4
3.2	25	0.2	93.6
3.25	17	0.1	93.7
3.3	19	0.1	93.9
3.35	20	0.2	94
3.4	21	0.2	94.2
3.45	25	0.2	94.4

<b>Appendix B.3c: Staffing levels in U.S. Nursing Homes: Distribution of RN+LPN hours per resident day: All Facilities, 1998</b>			
<b>RN+LPN hours per resident day</b>	<b>Number of facilities</b>	<b>Percentage of facilities</b>	<b>Cumulative percentage</b>
3.5	21	0.2	94.5
3.55	21	0.2	94.7
3.6	24	0.2	94.9
3.65	25	0.2	95.1
3.7	24	0.2	95.3
3.75	15	0.1	95.4
3.8	21	0.2	95.5
3.85	15	0.1	95.7
3.9	15	0.1	95.8
3.95	17	0.1	95.9
4	23	0.2	96.1
4.05	21	0.2	96.2
4.1	19	0.1	96.4
4.15	21	0.2	96.6
4.2	17	0.1	96.7
4.25	12	0.1	96.8
4.3	15	0.1	96.9
4.35	17	0.1	97
4.4	15	0.1	97.1
4.45	9	0.1	97.2
4.5	16	0.1	97.3
4.55	12	0.1	97.4
4.6	10	0.1	97.5
4.65	7	0.1	97.6
4.7	17	0.1	97.7
4.75	12	0.1	97.8
4.8	24	0.2	98
4.85	5	0	98
4.9	11	0.1	98.1
4.95	7	0.1	98.1
5	13	0.1	98.2
5.05	11	0.1	98.3
5.1	13	0.1	98.4
5.15	11	0.1	98.5
5.2	9	0.1	98.6

<b>Appendix B.3c: Staffing levels in U.S. Nursing Homes: Distribution of RN+LPN hours per resident day: All Facilities, 1998</b>			
<b>RN+LPN hours per resident day</b>	<b>Number of facilities</b>	<b>Percentage of facilities</b>	<b>Cumulative percentage</b>
5.25	11	0.1	98.7
5.3	6	0	98.7
5.35	13	0.1	98.8
5.4	6	0	98.9
5.45	5	0	98.9
5.5	8	0.1	99
5.55	6	0	99
5.6	4	0	99
5.65	4	0	99.1
5.7	6	0	99.1
5.75	2	0	99.1
5.8	3	0	99.1
5.85	4	0	99.2
5.9	2	0	99.2
5.95	5	0	99.2
6	8	0.1	99.3
6.05	6	0	99.3
6.1	6	0	99.4
6.15	1	0	99.4
6.2	3	0	99.4
6.25	3	0	99.4
6.3	3	0	99.5
6.35	3	0	99.5
6.4	5	0	99.5
6.45	2	0	99.5
6.5	2	0	99.6
6.55	1	0	99.6
6.6	4	0	99.6
6.7	3	0	99.6
6.75	4	0	99.6
6.8	3	0	99.7
6.85	3	0	99.7
6.95	2	0	99.7
7	2	0	99.7
7.05	2	0	99.7

<b>Appendix B.3c: Staffing levels in U.S. Nursing Homes: Distribution of RN+LPN hours per resident day: All Facilities, 1998</b>			
<b>RN+LPN hours per resident day</b>	<b>Number of facilities</b>	<b>Percentage of facilities</b>	<b>Cumulative percentage</b>
7.1	1	0	99.7
7.15	1	0	99.8
7.2	3	0	99.8
7.25	3	0	99.8
7.35	2	0	99.8
7.4	2	0	99.8
7.5	1	0	99.8
7.55	1	0	99.8
7.6	1	0	99.9
7.65	1	0	99.9
7.7	2	0	99.9
7.95	1	0	99.9
8	2	0	99.9
8.15	1	0	99.9
8.25	1	0	99.9
8.3	1	0	99.9
8.55	1	0	99.9
8.75	1	0	99.9
8.8	1	0	99.9
8.95	2	0	100
9	1	0	100
9.2	1	0	100
9.85	1	0	100
10.4	1	0	100
10.5	1	0	100
Source: OSCAR			

<b>Appendix B.3d: Staffing levels in U.S. Nursing Homes: Distribution of Nurses Aide Hours per Resident Day: All Facilities, 1998</b>			
<b>Total hours per resident day</b>	<b>Number of facilities</b>	<b>Percentage of facilities</b>	<b>Cumulative percentage</b>
0	113	0.9	0.9
0.05	5	0	0.9
0.1	3	0	0.9
0.15	5	0	1
0.2	10	0.1	1
0.25	15	0.1	1.2
0.3	8	0.1	1.2
0.35	10	0.1	1.3
0.4	11	0.1	1.4
0.45	10	0.1	1.5
0.5	10	0.1	1.5
0.55	17	0.1	1.7
0.6	24	0.2	1.9
0.65	27	0.2	2.1
0.7	26	0.2	2.3
0.75	37	0.3	2.5
0.8	36	0.3	2.8
0.85	55	0.4	3.2
0.9	66	0.5	3.8
0.95	79	0.6	4.4
1	72	0.6	4.9
1.05	97	0.7	5.7
1.1	107	0.8	6.5
1.15	136	1	7.5
1.2	130	1	8.5
1.25	183	1.4	9.9
1.3	192	1.5	11.4
1.35	226	1.7	13.1
1.4	245	1.9	15
1.45	261	2	17
1.5	301	2.3	19.4
1.55	358	2.8	22.1
1.6	383	2.9	25.1
1.65	381	2.9	28
1.7	439	3.4	31.4

**Appendix B.3d: Staffing levels in U.S. Nursing Homes:  
Distribution of Nurses Aide Hours per Resident Day: All Facilities, 1998**

<b>Total hours per resident day</b>	<b>Number of facilities</b>	<b>Percentage of facilities</b>	<b>Cumulative percentage</b>
1.75	493	3.8	35.1
1.8	537	4.1	39.3
1.85	524	4	43.3
1.9	533	4.1	47.4
1.95	563	4.3	51.7
2	552	4.2	56
2.05	537	4.1	60.1
2.1	512	3.9	64
2.15	459	3.5	67.6
2.2	425	3.3	70.8
2.25	378	2.9	73.7
2.3	343	2.6	76.4
2.35	306	2.4	78.7
2.4	308	2.4	81.1
2.45	238	1.8	82.9
2.5	184	1.4	84.4
2.55	179	1.4	85.7
2.6	173	1.3	87.1
2.65	172	1.3	88.4
2.7	124	1	89.3
2.75	131	1	90.3
2.8	92	0.7	91
2.85	108	0.8	91.9
2.9	83	0.6	92.5
2.95	74	0.6	93.1
3	58	0.4	93.5
3.05	65	0.5	94
3.1	51	0.4	94.4
3.15	45	0.3	94.8
3.2	48	0.4	95.1
3.25	45	0.3	95.5
3.3	34	0.3	95.7
3.35	34	0.3	96
3.4	26	0.2	96.2
3.45	42	0.3	96.5

**Appendix B.3d: Staffing levels in U.S. Nursing Homes:  
Distribution of Nurses Aide Hours per Resident Day: All Facilities, 1998**

<b>Total hours per resident day</b>	<b>Number of facilities</b>	<b>Percentage of facilities</b>	<b>Cumulative percentage</b>
3.5	19	0.1	96.7
3.55	27	0.2	96.9
3.6	18	0.1	97
3.65	13	0.1	97.1
3.7	14	0.1	97.2
3.75	16	0.1	97.4
3.8	20	0.2	97.5
3.85	17	0.1	97.6
3.9	13	0.1	97.7
3.95	14	0.1	97.8
4	23	0.2	98
4.05	9	0.1	98.1
4.1	14	0.1	98.2
4.15	13	0.1	98.3
4.2	9	0.1	98.4
4.25	11	0.1	98.5
4.3	10	0.1	98.5
4.35	9	0.1	98.6
4.4	8	0.1	98.7
4.45	7	0.1	98.7
4.5	14	0.1	98.8
4.55	12	0.1	98.9
4.6	4	0	98.9
4.65	5	0	99
4.7	5	0	99
4.75	6	0	99.1
4.8	8	0.1	99.1
4.85	9	0.1	99.2
4.9	7	0.1	99.3
4.95	6	0	99.3
5	6	0	99.3
5.05	6	0	99.4
5.1	3	0	99.4
5.15	2	0	99.4
5.2	4	0	99.5

<b>Appendix B.3d: Staffing levels in U.S. Nursing Homes: Distribution of Nurses Aide Hours per Resident Day: All Facilities, 1998</b>			
<b>Total hours per resident day</b>	<b>Number of facilities</b>	<b>Percentage of facilities</b>	<b>Cumulative percentage</b>
5.3	4	0	99.5
5.35	7	0.1	99.5
5.4	4	0	99.6
5.45	1	0	99.6
5.55	3	0	99.6
5.6	5	0	99.6
5.65	1	0	99.7
5.7	3	0	99.7
5.75	2	0	99.7
5.8	1	0	99.7
5.85	5	0	99.7
5.9	4	0	99.8
5.95	2	0	99.8
6	2	0	99.8
6.05	1	0	99.8
6.1	1	0	99.8
6.15	1	0	99.8
6.3	1	0	99.8
6.35	1	0	99.8
6.4	2	0	99.9
6.6	2	0	99.9
6.65	1	0	99.9
6.8	1	0	99.9
6.85	2	0	99.9
6.9	1	0	99.9
7.05	1	0	99.9
7.1	1	0	99.9
7.15	1	0	99.9
7.2	1	0	99.9
7.3	1	0	99.9
7.4	1	0	100
7.5	1	0	100
7.55	1	0	100
7.95	2	0	100
8.05	1	0	100

<b>Appendix B.3d: Staffing levels in U.S. Nursing Homes: Distribution of Nurses Aide Hours per Resident Day: All Facilities, 1998</b>			
<b>Total hours per resident day</b>	<b>Number of facilities</b>	<b>Percentage of facilities</b>	<b>Cumulative percentage</b>
8.9	1	0	100
Source: OSCAR			